

**ABSTRACT**

**A METHOD OF CALCULATING INTERNAL SIGNALS FOR USE IN A MAP**

**ALGORITHM**

A method of calculating internal signals for use in a MAP algorithm is disclosed, comprising the steps of:

obtaining first decoding signals by processing received systematic and received encoded symbols of each symbol sequence of a received signal;

obtaining unnormalized second decoding signals for the current symbol sequence by processing the first decoding signals of the previous sequence and second decoding signals of the previous sequence;

obtaining unnormalized third decoding signals for the current symbol sequence by processing the first decoding signals of the current sequence and third decoding signals of the next sequence;

normalizing the unnormalized second and third decoding signals; and

wherein at least one of said second decoding signals of the previous sequence and said third decoding signals of the next sequence are unnormalised.

FIG. 2